

Natural Tracers for Ridge and Slough Peat

- ◆ **pilot project**
- ◆ **investigate tracers to estimate sediment accumulation rates in ridge and slough environment**

Ground Penetrating Radar

- ◆ **pilot project**
- ◆ **investigate application of ground penetrating radar to map position of surface and shallow groundwater levels over a large area**

Wading Bird Energetics

- ◆ **year**
- ◆ **construct a hydroperiod performance measure based on energetic model of wading bird foraging and feeding during nesting**

Tree Island Biomass Using Lidar

- ◆ **pilot project**
- ◆
- ◆ **develop a tree island health performance measure based on application of the lidar remote sensing technology**

L31N Seepage

- ◆ **1-year (depends on PMP for CERP project)**
- ◆ **perform fine-scale groundwater modeling**

Southern Everglades **Environmental Monitoring**

- ◆ **multi-year**
- ◆ **trace nitrogen input, transport, transformation and ecosystem impacts in mangrove transition zone of the southern Everglades**

Pesticide Fate and Transformation

- ◆ **multi-year**
- ◆ **transport and fate in soil and water of pesticides entering the southern Everglades wetlands from the South Dade Conveyance System**

Tracing Freshwater Flows in Florida Bay

- ◆ **multi-year**
- ◆ **develop and implement a monitoring program capable of distinguishing the effect of freshwater runoff on salinity at locations throughout Florida Bay**
- ◆ **monitor effects of changes in runoff volume over time**

Effects of High Salinity on Seagrass Health

- ◆ **multi-year**
- ◆ **use mesocosm facility to determine response of different seagrass species to high salinity in Florida Bay**

Evaluation of Multiple Stressors on Seagrass in Florida Bay

- ◆ 1-year
- ◆ determine nutrient uptake kinetics and sulfide toxicity for seagrass species found in Florida Bay